

Plasma Physics and Problems of Controlled
Thermo-Nuclear Synthesis, Chapter Seven,
Diagnostics of Plasma, by K. D. Sinel'nikov.

RUSSIAN, bk, Fizika Plazmy i Problems
Upravlyayemogo ~~Ik~~ Termoyadernogo Sinteza,
~~Izd-vo Ak Nauk Ukrainskoy SSR~~, 1963,
pp 315-342.

FTD-MT-64-214

Sci - Phys
ADI 64

Plasma Physics and Problems of Controlled of
Controlled Thermonuclear Synthesis. Reports of the
First Conference on Plasma Physics and the Problems
of Controlled Thermonuclear Reactions, 201 pp.
RUSSIAN, bk, Fizika Plazmy i Problemy Upravlyaemogo
Termoyadernogo Sinteza. Doklady i Kon po Fizike
Plazmy Problem Upravlyaemykh Termoyadernykh
Reaktsii, 19-27 Apr 1962, Kiev, 1963.
*FTD-31-65-31

Sci ' Nucl Sci
Feb 65

Plasma Physics and Problems of Controlled Thermonuclear Synthesis. Reports of the First Conference on Plasma Physics and the Problems of Controlled Thermonuclear Reactions, 201 pp.

RUSSIAN, by K. P. Zhelezovskiy, I. Problemy

Upravlyaniya Tseppoyamoye Sinteza. Doklady

i Konferentsii po Fizike Plasmy i Probleme 22 - Jan 79,

Upravlyaniya Tseppoyamoye Reaktsii, Kiev,

1982, 176 pp. 5224667; 9224784

AEC-Tr-6896

Sci-Nucl Sect
Sep 64

267,306

Plasma Physics and Problems of Controlled Nuclear
Fusion, Conference Proceedings, 446 pp.
RUSSEAN, M., Plasma Physics, Problemy Upravlyaniya
Termoyadernym Reaktorom. Doklady Vsesoyuznoi Konferentsii
po Fizike Plazmy i Probleme Upravlyaniya Termoyadernym Reaktorom, Kharkov, 14-19 Nov 1963. 9228771-V
AEC-Tr-0327 9228771

Sci-Phys
May 65

280,216

Soil Physics, by I. B. Revut.

RUSSIAN, mono, Fizika Poch', Moscow, 1964, 160 pp.

*CB

Sci-Agr
May 64

)
Physics of the Boundary Layer of the Atmosphere,
by D. L. Laykman, 240 pp.
RUSSIAN, bk, Fizika Pogranichnogo Sloya Atmosfery,
1961.
OTS 64-11016
PL-180

Sci - Phys
Jul 64

263,045

436
Physics of Semiconductors, by A. F. Yoffe; 500 pp;

Poluprovodnikov
RUSSIAN, bk. Fizika Poluprovodnikov, 1957, pp 491-
(revised by author).

INFOSEARCH Ltd
Cleaver-Hume Press Ltd
31 Wright's Lane
London W 8

Sci - Physics
Mar 59

83,739

Physics of Semiconductors and Metals,

98 pp.

RUSSIAN, bk. Fizika Poluprovodnikov i Metallov,

Moscow-Leningrad, 1964, pp 1-76.

JPRS 26774

Sci - M/M

Oct 64

267,966

The Physics of Semiconductor Surfaces, by
G. P. Peka,
RUSSIAN, bk, Fizika Poverkhnosti Poluprovodnikov,
*CB

Sept 66

Physics of the Lowest Layer of the Atmosphere
and the Atmospheric Turbulence, *qpp*.

RUSSIAN, rpt, Fizika Prizemnogo Sloya Atmosfery
i Atmosfernoy Turbulentsii, Moscow, 1957,

11044-51

AND SCI-T-22

Sci - Geography
Apr 60

AMS X-1-112

112,968

Infrared Spectra of Stearic Acid at Various
Temperatures, by M. R. Yagudayev.

RUSSIAN, per, Fiz Probl. Spektroskopii, Ak Nauk
SSSR, Leningrad, Vol I, 1960.

ERDL, Ft Belvoir T-1724
(AD 436417)

Sci - Phys
Nov 64

Investigation of Line Intensities of Raman Spectra
of Gases at Low Pressures by a Photoelectric
Method, by Yu. A. Lazarev, P. A. Bashulin.
RUSSIAN, Per, Fiz. Probl. Spektroskop. AN Materialy
13-Go Sovesshen., Vol 2, 1960, pp. 22-25.
NLE Ref: 8732 (RT 1340)

sci-cehm
sept 69

7
399.200

Investigation of Line Intensities of Raman
Spectra of Gases at Low Pressures by a
Photoelectric method. 6p, 11 refs. NRC-TT-134-.
By Lazarev, Yu, A.; Bashulin, P.A.
RUSSIAN, mono. Fizicheskie Problemy Spektroskopii,
Moscow Vol. 2, 1963,
pp 22-5.
ETC-69-25494

MAR 1970

404,575

Study of the Properties of Hydrogen Atoms
Adsorbed Onto a Silica-Gel Surface by the
Method Electron Paramagnetic Resonance, by
V. B. Kazanskiy, G. B. Pariyskiy, 6 pp.
RUSSIAN, per, Fizicheskiye Problemy
Spektroskopii, No 2, 1963, pp 109-113.

0100091567

FTD-111-66-368

Sci - Phys

Apr 67

322,050

Effect of Gibberellin on the Growth, Productivity
and Fruit Shape of Tomato Plants, by S. F.
Negrutskii.

RUSSIAN, per, Fiziol Rastenii, Vol 7, No 6, 1960,
pp 5-734
NIL/M 5182

Sci -
Jul 67

334,217

The Physics of X-Rays, by M. A. Blokhin, 420 pp.

RUSSIAN, bk, Yizik Rentgenovskikh Luchei, 1957,
518 pp. 9081187-V

ARC Tr-4502

Sci - Phys
Sep 61

169,017

Compensation of an Electronic Volumetric Charge
by Alkali Metal Ions, by M. E. Gurtoviyi,
M. M. Lavshits', 15 pp.
Fizicheskiy Sbornik,
UKRAINIAN, per, ~~Russkiy Sbornik~~, No 9, 1956,
pp 93-100. 9668515

ARTIC: MCL-822/1

Sci - Min/Metals

Jul 61

159,495

62-12567

Babushkin, A. A., Uvarov, A. V., and
Ignat'eva, L. A.
INVESTIGATION OF ADSORPTION AND SURFACE
REACTIONS OF ETHANOL AND METHANOL ON
ALUMINA BY MEANS OF INFRARED SPECTROSCOPY. [1961] 7p.

Order from ATS \$12.50

ATS-97N57R

Trans. of Lvov U. Fiz[icheskii] Sbornik (USSR) 1957,
no. 3[8] p. 161-167.

DESCRIPTORS: *Adsorption, *Surface properties,
*Ethanol, *Methanol, *Aluminum compounds,
Oxides, Infrared spectroscopy.

(Chemistry--Physical, TI, v. 7, no. 9)

- I. Babushkin, A. A.
- II. Uvarov, A. V.
- III. Ignat'eva, L. A.
- IV. ATS-97N57R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Spectrographic Work of the Metal-Physica
Laboratory of the Stalingrad Branch of
Glasnost, by B. G. Voronov.

RUSSIAN, per, Fiz Sbornik L'vovsk Univ, Vol. IV.
No 9, 1958, pp 395-402.

BZBI 2269

See also

176, 162

See also

Spectrograph for the Analysis of Molten Metal and
Slag, by I. M. Kustanovich.

RUSSIAN, per, Fiz Spornik L'vovsk Univ, Vol. 10,
No 9, 1958, pp 451-452.

BISI 2370

Sci - Min/Metals

Dec 61

175, 862

Chemical and Spectral Analysis of
Impurities in Pure Metals,
by A. G. Karabash, et al.
RUSSIAN, per, Piz. Sbornik L'vov
Univ., No 4, 1958, pp 550-562.
BIBL 4137

USSR
Sci/TECH
Jul 65

282,437

Raman Scattering by Alkali Metal Halide
Crystals, by A. I. Sokharov.
RUSSIAN, per. Fiz. Zhelozhnykh
Kristallov, Riga, 1962, pp 88-98 9230156
AEC UCL-TR-1248(L)

Sci-Phys
Nov 65

291, 640

Experiments With Electronic Tabs, by B. L.
Morgolin.

RUSSIAN, per, Fizika v Shkole, No 6, 1956, pp
60-62.

SEE 8-383/60
(NY-5008).

Development of the Method of Teaching Physics in
the USSR, By I. I. Scholov, 27 pp.

RUSSIAN, per, Fiz v Shkole, No 5, 1957, pp 23-36.

ACSI, E-4000

USSR

Soc - Education

Sep 59

96,994

News From Science and Technology, 5 pp.

RUSSIAN, par, Plasma V Shkole, No 1, 1957,
pp 32-33. 9669949

FID-TL-63-674

Sol. - Phys

Sept 63

344,064

The News of Science and Technics, 4 pp.
UNCLASSIFIED

RUSSIAN, per, Fizika v Shkole, No. 6, 1957,
pp 16-17. 89,459

ATTN MCL-13/III

Sci - Space Res

Jun 59

89,459

CR-284/62

Milen Lazarevich Aksenov, 28y

RUSSIAN, per, Fizika v Shkole, No 3:4, 1961.

✓ JPRS/NY-7398

USSR
3105

Feb 63

CP-184-02

Nataliya Samoylovna Krever, 248

RUSSIAN, Fizika v Shkole, Vol ^{XXI} 21, KNNRXXX No 3:3,
1961.

JPIS/AY-7398

USSR

Lib

Feb 63

CR-264-62

Varvara Andreyevna Kanygina, 18

RUSSIAN, per, Fizika v Shkole, No 3:6, 1961.

JPRS/RY-7395

JSSG

JIOG

Feb 65

CR-284-02

Rosa Khasanovna Baygil'dina, 18

RUSSIA, per, Fizika, 8 v Shkole, No 2:9, 1991,

V&M

JPRS/NY-7398

USC

1102

Feb 03

New Agricultural Technology, by K. P. Marakhtanov,
L. N. Musinov, 8 pp.
RUSSIAN, per, Fizika v Shkole, No 5, 1963, pp 6-18.

JPRS 23537

USSR
Econ
Mar 64

251, 127

Physics of the Solar System, by
A. A. Milne.
RUSSIAN, 72t, Fizika Solnednogo Sistemy,
1964.
NASA TT 1-342

Sci-Astronomy and Astrophysics
Jan 67

317,854

Physics of Solar Corona, by I. S. Shklovskiy

RUSSIAN, bk, Fizika Solnechno-korony, 1962

*Israel/PST (Not FL-480)

Sept 62

The Connection Between Solar Activity and Geomagnetic
Disturbances, by A. I. Ol'.

RUSSIAN, bk, Fizika Solnechnykh Korpuskuliarnykh Potokov
i Ikh Vozdeistvie na Verkhniuyu Atmosferu Zemli,
pp 89-86. 9070031

Amer Meteorol Soc
AF Cambridge Res Center

Sci - *Astronomy*
~~Geophysics~~

Sep 60

125,789

Discussions on the Lectures of E. R. Mustel',
A. B. Severnyi, E. K. Vokhvatitskii et al.,
G. M. Mikhlin'skii, E. A. Ponomarev, 11 pp.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviya na Verkhnyuyu Atmosferu
Zemli; Trudy Konferentsii Khimiki po Issledovaniyu
Solntsa, 22-24 Noyabrya 1955 g., Moscow, 1957,.

9. 70031

DAVID MK-309/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecon 41775
Jan 60

105,240

Discussion on the Lectures, by O. A. Burdo,
A. I. 01, 6 pp.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Vyzhivaniye Atmosferu
Zemli; Trudy Konferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Noyabrya 1955 g, Moscow, 1957,

9070031
GATC MEL-909/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775
Jan 60

105,239

Discussion of the Possible Sources of Geosactive
Corpuscles in the Solar Envelope, by E. R.
Mantel', 56 IT.

RUSSIAN, bk, M. A. Bolneshayda Korpustulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli, Trudy Interkontental'noi Komissii po Issledovaniyu
Solntsa, 22-24 Noyabrya 1955 g., Moscow, 1957, pp. 8-37

90 900.01
*ATIC MEL-309/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telephone 41775
Jan 60

105,243

Spectroscopic Investigation of Corpuscular
Ejections on the Sun, by A. B. Severskiy, 16 pp.

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov : Ikh Vozdaystviye na Verkhnyuyu Atmosferu
Zemli; Trudy Interentsii Komissii po Issledovaniyu
Solntsa, 22-23. Iyulyaya 1955 g, Moscow, 1957. 40-56

9070031

GALE MCL-309/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecomm 41773
Jan 60

105,139

On Solar Corpuscular Radiation, by S. K.
Vashchepetkiy, Ye. A. Ponomarev, et/al. UNCL

RUSSIAN, in, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Tрудy Konferentsii Kosmicheskoy Issledovaniya
Solntsa, 22-24 Iyulya 1955 g., Moscow, 1957, pp
51-58.

ATTC MCL-309/III

Sci - Astronomy

Apr 60

112,946

Photometry of Coronal Rays and Corpuscular Streams
by G. N. Nikol'skiy

USSR

RUSSIAN, bk, Fizika Solnchnoy Korony i Korpuskulyarnykh
Potokov: Ikh Vozniknoveniye na Verkhneyu Kromke
Zemli; 8-ye Mezhdunarodnyy Simpozium po Issledovaniyu
Solntsa, 22-24 Avgusta 1955 g., Moscow, 1957
IF 61-63.

AKIC NOL-309/XXI

Sol - Astronomy

112, 948

Apr 60

Corpuscular Radiation of the Sun and Topology of the
Magnetic Field in the Solar Corona, by Ye. A.
Ponomarev.

RUSSIAN, in, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviya na Vozdushnyu Atmosferu
Zemli; Trudy Konferentsii Nauchn. po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g, Moscow, 1957, pp
69-75. 90 70031

CASTLE MCL-309/III
Ames Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775

105,234

Investigation of Movements in the Solar Corona, by
 Studying Flare-Ups in Radiowave Emission, by V. V.
 Vitkevich. U.S.S.R.

KURATYAN, M. P. Plasma Solnechnykh Kornekulyarnykh
Potokov i Ikh Vozdeystviya na Verkhnyuyu Atmosferu
Zemli; Erlye Kosmicheskii Radikal na Issledovaniyu
Polnisa. 22-28 Avgusta 1957 g., Moscow, 1957,
 112-95.

AMTC NCL-309/IKI

Sci - Astronomy, Electronics

112, 947

Aug 60

Effect of Solar Corpuscular Radiation on Comets,
by S. M. Poloskov URZ

RUSSIAN, bk, Fizika Solncheskogo Korpustulyarnykh
Potokov i Ego Vozdeystviya na Verkhnyaya Atmosferu
Zemli; Gruz. Nauchnoissled. Komitet po Kosmopolitizmu
Sovetsk. Akad. Nauk, 22-24 Avgusta 1957 g., Moscow, 1957,
16 p. 10.

ATIS NUL-309/III

Sci - Astronomy

Apr 60

112,949

Electromagnetic Phenomena in Cometary Stream,
by B. E. Pittelner, U.S.S.R.

RECEIVED: Mr. Eliaha Kolneschikov Korpuskulyarnyykh
Eosinov. I. I. Vozdushnyye na Verkhnyuyu Atmosferu
Pam. I. I. Konkurentsiy Komitet po Issledovaniyu
Sobrem. 22-23 Novembra 1955 g, Moscow, 1957,
pp 105-111.

AEIC MEL-309/III

Sci. - Astrophys., Physics

Apr 60

112,942

Information on Solar Coruscular Streams Obtained
by Studying Cosmic Ray Variations, by L. I.
Dorman.
UNCL.

RUSKIAN, M. P. Parika Solnechnykh Kordusulyarnykh
Pobitov i Ikh Vozdeystviya na Verkhnyuyu Atmosferu
Zemli; Prilozheniye k spetsial'noi knizhke po issledovaniyu
Solnitsa, 22-24 Avgusta 1955 g., Moscow, 1957
pp 112-118.

ATID MX-309/III

Sci. - Astronomy

Apr 60

112, 944

Interpretation of Research Data on Geomagnetic
Disturbances of a Corpuscular Nature, by B. Ho.
Brunelli, UNCL

RUSSIAN, bk, Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviya na Verkhnyuyu Atmosferu
Zemli; Study Konferentsii Komissii po Issledovaniyu
Solntsa, 23-24 Iyulya 1955 g, Moscow, 1957,
pp 131-143.

AEIC REL-309/III

Sol - Atmosphere

112,943

Magnetic Disturbances in the Circumpolar Region and
the Existence of a Second Zone of their Intensive
Activity, by A. P. Kikalskiy.

RUSSIAN, bk, Fizika Solnechnykh Korpustulyarnykh
Potokov 1 Ikh Vliyeniya na Verkhnyuyu Atmosferu
Zemli, Trudy Interferentsii Khimii i Isledovaniyu
Solntsa, 22-24 Noyabrya 1955 g, Moscow, 1957, pp
144-158.

907003/1

SAINT MIL-309/III
Astr Meteorol Soc
AF Cambridge Res Center

105,235

Sci - Astronomy, Geophysics
Telecom 41775 Jan 60

On Certain Regularities of Magnetic Disturbances
in High Altitude, by O. A. Burdo. UNCL

RUSSIAN, M., Pinia Bolneshoykh Korpuskilyarnykh
Pechkov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli; Erudy Konferentsii Komitet po Issledovaniyu
Bolnesh. 22-24 Iyulya 1955 g., Moscow, 1957
pp 159-166.

ATTC NCL-309/III

Sci - Geophysics

Att 60

112,945

On the Connection Between Solar Activity and
Geomagnetic Disturbances, by A. L. ...

RUSSIAN, bk, Fizika Solnechnykh Kosmicheskikh
Potokov i Ikh Vozdeystviya na Vozdukhnyy Atmosferu
Zemli, Izdatel'stvo Khar'kovskogo gos. inzh. i
Stroitel'nogo univ. 1977, Moscow, 1977,
pp 167-177.

90700319

4210 MIL-309/III
Amer Meteorol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775
Jan 60

105236

On Hydrogen Emissions in the Spectrum of the Aurora
Borealis, by S. I. Iosyev.

RUSSELL, H., *Minim. Soluchnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviya na Verkhnyuyu Atmosferu
Zemli. Trudy Komitetov i Komissii po Issledovaniyu
Solntsa, 22-24 Iyulya 1955 g., Moscow 1957, pp
178-181.*

90 70031 9
CATIC HCL-309/LII
Inner Meteorol. Soc
AF Cambridge Res Center

Sci. - Astronomy
Telecomm 41775
Jan 60

105,237

High-Sky Luminosity and Solar Activity, by B. F.
Rozhnov.

U.S.S.R.

RUSLAN, Dr. Fyodor Solov'yevich Karpukulyanovich
Doklady i Uche. Razyskaniya na Verkhnyuyu Atmosferu:
Temli: Trudy Konferentsii Nauch. po Issledovaniyu S
Solntsa, 21-26 Novyabrya, 1955 g., Moscow, 1957,
pp 269-272.

ATLANTIC-309/XII

Sci - Astronomy

Apr 60

112,938

Equation of Quasistationary Ionization Equilibrium in
F-layer and Solar Corpuscular Radiation, by H. X.
Mikhailovskiy.

RUSSIAN, bk. Fizika Solnechnykh Korpuskulyarnykh
Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu
Zemli, Trudy Konferentsii Komissii po Issledovaniyu
Solntsa, 22-24 Noyabrya 1955 g., Moscow, 1957,
pp 261-268.

907031
CATIC MEL-309/III
Astr Metrol Soc
AF Cambridge Res Center

Sci - Astronomy
Telecom 41775
Jan 60

105,238

The Sun, A Survey of Modern Solar Physics, by A.
Evershed,

RUSSELL, J. E., Physics of the Sun, 1956, Moscow, 158 pp.

Lawrence & Wishart Ltd, London

Sci. Astronomy

May 60

Branch Five Library

GB

521

.S28

EL

CAP. 2

116,500

Request translation check FTD 21-8-78 BT69-1-1786T

Effect of heat treatment on the wear resistance of a
nickel-phosphorus coating 4 *AP*

N/B
N Bazarbekov, Yu S Terminasov
Fiz. Svoystva Dielek. Poluprov. Krist. 1967, 49-51

Completed *[Signature]*

FTD - *MT* 24-327-67

*Examine
15 Sept 68*

Physics and Engineering of Strong Magnetic
Fields, Handbook, by V. R. Karaskik.

RUSSIAN, mono, Fizika i Tekhnika Sil'nykh
Magnitnykh Polei, Moscow, 1964, 320 pp.

*CB

Sci-Phys
May 64

The Physics and Technology of Strong
Magnetic Fields, by V. R. Karasik.
RUSSIAN, bk. Fizika i Tekhnika Silnykh
Magnitnykh Poler, 1964, 350 pp.
NEL R. 35113

Sci-Phys
June 66

301,470

62-32507

Chudnovskii, A. F.
PHYSICS OF HEAT EXCHANGE IN SOIL. [1962]
[317]p. 179 refs. USASIA Trans. Log no. 1381.
Order from OTS or SLA \$19.75 62-32507

Trans. of mono. Fizika Teploobmena v Pochve, "o
Moscow, 1968, 220p.

DESCRIPTORS: *Soils, *Heat transfer, Heat ex-
changers, *Geophysics, *Agriculture, *Meteorology,
Thermal diffusion, Test methods, Mathematical
analysis.

Contents:

Basic problem in the field of soil energetics, and
methods of its solution

The role soil heat exchange plays in the total heat
balance and the significance of such an exchange for
geo-agrophysical problems

Study methods of thermal conditions in soils
(Earth Sciences, IT, v. 8, no. 9)

(over)

- I. Chudnovskii, A. F.
- II. USASIA Trans-1381
- III. Army Signal Intelligence
Agency, Arlington, Va.
- IV. Systems Engineering Facility,
RCA Service Co.,
Alexandria, Va.

Office of Technical Services

61-31215

Chudnovskii, A. F.
HEAT TRANSFER IN THE SOIL, tr. by S. Monson.
1962, 164p, 179 refs, PL-480 Agr.
Order from OTS \$11.75

61-31215

Trans. of mono. Fizika Teploobmena v Pochve,
Leningrad/Moscow, 1948 [220p.]. 4407559

DESCRIPTORS: *Soils, *Heat transfer, Geophysics.

Contents:

The fundamental problem of soil energetics and methods for its solution

Heat transfer in soil: its role in the total heat balance and significance in geophysical and agrophysical problems

Methods for the study of the soil heat regime

Fundamental characteristics of the soil thermal regime

Theory of heat transport in the upper layers of the soil

Practical applications

(Agriculture--Plant Cultivation, TT, v. 9, no. 7)

I. Chudnovskii, A. F.
II. PL-480 Agr (61-31215)
III. National Science Foundation,
Washington, D. C.

Office of Technical Services

Reactor Physics and Heat Engineering,

RUSSIAN, ^{bk} Fizika i Teplotekhnika Reaktorov, Publish
ing House on Atomic Literature, 1958, pp 214 pp.

*AEC (A-30)

Sci - Physics
Jul 58

Dislocation and Diffusion Effects in
Recrystallization of Deformed Copper, by
B. Ya. Pines, 8 pp.

RUSSIAN, ^{per} Fizika Tverdogo Tela-Sbornik
Staty, 1949, pp 264-272.

ACSI H-8693
ID 2162139

Sci - Phy

Jun 61

154,733

Temperature Dependence of Ionization Energy of
Impurity Centers in a Homopolar Crystal,
by Fisher, Smolik, 2 pp.

RUSSIAN, ~~in~~ Fizika Tverdogo Tela, Sbornik Statey,
1959, pp 5-7.

ACSI H-8691

ID 2162137

Sci - Phys
Mar 64

Influence of Short-Range Order on Electric
Properties of Substance, by A. B. Almazov, 5 pp.
UNCL

RUSSIAN, per, Fiz Tverdogo Tela-Sbornik Statey,
1959, pp 158-161.

ASI H-8458
ID 2162095

Sci - Phys
Mar 61

143,870

Physics of Solids, Collection of Articles.

RUSSIAN, bk, Fizika Tverdogo Tela, Sbornik Statey
I and II, 1959, pp 298-328.

*ATIC ~~SECRET~~

Sci - Phys

1 Aug 60

Telecom IC 41311

62-27327

Bonch-Bruевич, V. L.
ZUR THEORIE DER STÖRSTELLENZUSTÄNDE IN
HALBLEITERN (On the Theory of Impurity States in
Semiconductors).
Order from TIB \$1.80

Trans. in German of mono. Fizika Tverdogo Tela:
[Sbornik State (Solid State Physics: Collection of Arti-
cles) v. 1, Moscow] 1959, p. 177-181.

DESCRIPTORS: Impurities, *Semiconductors, Theory

- I. Bonch-Bruевич, V. L.
- II. Technische Informations-
bibliothek, Hannover
(West Germany)
- III. Title: Solid...

(Physics--Solid State, TT. v. 9, no. 11)

Office of Technical Services

Dislocation and Diffusion Effects in Recrystallization
of Deformed Copper, by B. Ya. Pines, 8 pp.

RUSSIAN, per, Fizika Tverdogo Tela, Sbornik Staty,
1959, pp 264-272.

ACSI H-8693
ID 2162139

Sci - Phys
Mar 64

The Secondary Electron Emission of Certain Polymers,
by T. L. Marakevich.
RUSSIAN, per, Fizika Tverdogo Tela, Sbornik Statey,
Vol I, 1959, pp 277-281.
NASA TT F-8847

Sci-Phys

May 64

U.S. GOVERNMENT ONLY

259,735

Thermoelectric High Vacuum Trap for the Pump N-1,
by E. A. Kolenko, et al, 2 pp.

RUSSIAN, per, Fiz Tverdogo Tela Sbornik Statey, W
Vol I, 1959, p 263.

CIA/PDD IX-977

Sci - Engineering
Mar 62
UNIB only

142,486

Secondary Electronic Emission of Certain Polymers,
by T. L. Matskevich.

RUSSIAN, per, Fizika Tverdogo Tela, Sbornik Statey I,
Vol I, # 1959, pp 277-281.

*NASA TT F-8847

Sci - Phys, Electron

Mar 64

U.S. GOVERNMENT ONLY

Surface Tension and Heat of Sublimation of
Silicon, Germanium and Lead, by S. N. Zak
Zadumkin,

RUSSIAN, per, Fiz Tverdogo Tela, Vol I, No 4,
1959, pp 572-573. 909 7958

AEC T-4933

Sci
Oct 51

ATC/KT-3417

The Dependence of the Reverse Current Through a
Germanium Diode on the Repetition Frequency of
Voltage Pulses, by S. G. Shul'man.

RUSSIAN, par, Fiz Tverdogo Tela, Vol 1, No 4,
1959, pp 597-601.

Internatl Physical Index
Electronics Express
Vol 11, No 1

Sci - Electronics
Nov 59

100,525

The Transient Response Involved in the Blocking of
a Junction Semiconductor Diode at Large Values of
Current, by Yu. K. Barsukov.

RUSSIAN, per. Fiz Tverdova Tela, Vol I, No 4, 1959,
p 602.

Internatl Physical Index
Electronics Express
Vol II, No 1

Sci - Electronics
R77 99

100,526

Mass Spectrometer Determination of the Amount
and Composition of Gases Adsorbed on the Surface of
Germanium and Silicon Monocrystals (Excerpts),
by V. M. Kozlovskaya, 7 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol I, No 7,
1959, pp 1027-1034. (Excerpts, pp 1027-1029).

ABC SCL-T-344

Sci
Jun 61

155, 940

On the Theory of Impurity Bands, by V. L. Bonch-Bruyevich, 10 p.

RUSSIAN, per, Fiz Tverd Tel 1959, Vol 1, No 8, pp 1213-1220.

NDP B-148

Sci
Apr 60
Vol XII, No 3

113,666

Dielectric Polarization of Some Complex Compounds,
by G.A. Smolenskiy, A.I. Agronovskaya.

RUSSIAN, par, Fiz Tver Tela, Vol I, No 10, 1959.
9661846. PP 1562-1572-

ATTC MEL 472/1

Sci - Phys
Jun 61

155,545

Ferroelectric Subtraction Substitutional Solid
Solutions, by G.A. Socolovskiy, V.A. Isupov,
A.I. Agreznovskaya.

RUSSIAN, per, Fiz Tver Tela, Vol I, No 10, 1959,
pp 1573-1582. 9631846.

ATTC MXL 472/1

Sci - Phys
Jun 61

155,549

11 158

GE-1

PIKUS G. E., BIR G. L.

The influence of deformations on the energy spectrum of
the holes in germanium and silicon

Der Einfluss von Deformationen auf das Energiespektrum
der Löcher in Germanium und Silizium

*Fiz. Tverd. Tela, 1, 1642-1658 (1959)

Physikalische Abhandlungen aus der Sowjetunion, 2, No. 4,
336-354 (1960)

German

E u r a t o m

11 152

GE-1

KLYAVIN O. V., STEPANOV A. V.

Study of the mechanical properties of metals at liquid helium temperatures

Untersuchung der mechanischen Eigenschaften von Metallen bei Heliumtemperaturen

*Fiz. Tverd. Tela, 1, 1733-1735 (1959)

Physikalische Abhandlungen aus der Sowjetunion, 2, No. 4, 323-326 (1960)

German

E u r a t o m

62-27188

Chuenkov, V. A.
DIE THEORIE DES ELEKTRISCHEN DURCH-
SCHLAGS DER HALBLEITER. I. (The Theory of
the Electric Breakdown of Semiconductors). (text in
German).
Order from T.I.B. \$1.85

Trans. from mon. Fizika Tverdogo Tela: Sbornik
Statei, v. 2 [Moscow, 1959].

DESCRIPTORS: Theory, *Semiconductors.

(Physics--Solid State, TT, v. 8, no. 10)

- I. Chuenkov, V. A.
- II. T.I.B.
- III. Technische Informations-
bibliothek Hannover

Office of Technical Services

62-27182

Kolomiets, B. T. and Mal'kova, A. A. ..
EIGENSCHAFTEN UND STRUKTUR TERNARER
HALBLEITERSYSTEME. V. (Properties and Struc-
ture of Ternary Semiconductor-systems). (text in
German).
Order from T. I. B. \$1.85

Trans. of mono. Fizika Tverdogo Tela: Sbornik
Statei, v. 2 [Moscow] 1959, p. 112-118.

DESCRIPTORS: Physical properties, Structure,
*Semiconductors.

(Physics--Solid State, IT, v. 8, no. 10)

- I. Kolomiets, B. T.
- II. Mal'kova, A. A.
- III. T. I. B.
- IV. Technische Informations-
bibliothek Hannover

Office of Technical Services

62-27165

Mashovets, T. V. and Rykva, S. M.
 UBER DIE TEMPERATURABHANGIGKEIT DER LEB-
 FENSCHEIT IM GERMANIUM IM EIGENLEITUNGS-
 BEREICH (On the Temperature Dependence of the In-
 ternal Field Effect in the Intrinsic Conductor
 range of Ge (in German)).
 Cited from P.T.R. 51, 83.

I. Mashovets, T. V.
 II. Rykva, S. M.
 III. T.I.R.
 IV. Technical Information
 Division, Defense

The above information is being furnished to you for your information only.
 It is not to be used for any other purpose.

DISCUSSION: Germanium, Conductors.

(Physics-Solid State, P.T.R. v. 8, pp. 10)

Office of Technical Services

Litovchenko, V. G.
UNTERSUCHUNG SCHNELLER OBERFLACHEN-
ZUSTÄNDE VON SILIZIUM (Testing of Rapid
Finishes of Silicon). (text in German).
Order from T. I. B. \$1.55

Trans. of mono. Fizika Tverdogo Tela; Sbornik
Statel. v. 2 [Moscow] 1959, p. 83-87.

DESCRIPTORS: Test methods, *Finishes, *Silicon.

(Materials--Finishes, TT, v. 8, no. 10)

62-27172

- I. Litovchenko, V. G.
- II. T. I. B.
- III. Technische Informations-
bibliothek Hanover

Office of Technical Services

61-18319

Nasiridav, D. N., Smirnova, N. S., and Tsarenkov, B. V.

POINT-CONTACT GALLIUM ARSENIDE DIODES

(Punkt-Kontakt-Diody na Osnove Arsenida Galliya) [1961] 7p. (foreign text included) 5 refs.

Order from CTR or SLA 51-10 61-18319

Trans. of Acad. Sci. USSR Div. Phys. Math. Sci. [Soviet Solid State Physics Collection of Articles] Moscow, 1961, v. 2, p. 58-58.

DESCRIPTORS: *Diodes, *Gallium compounds, Arsenides, Gallium alloys, Electron tubes, Metal plates, Electrical conductance, Electric connectors, Voltage

The method of preparing point-contact diodes of p-type GaAs is described briefly. The volt-ampere characteristics of the diode for different temperatures are given. It is shown the diode properties are retained (Physics--Solid State, TT, v. 7, no. 5) (over)

- I. Nasiridav, D. N.
- II. Smirnova, N. S.
- III. Tsarenkov, B. V.
- IV. Title 5 and ...

Office of Technical Services

Alferov, Zh. I., Gordeev, G. V. and Stafeev, V. I.
TEMPERATURABHANGIGKEIT DER DURCHSCHLAG-
SPANNUNG IN GERMANIUM-UND SILIZIUMDIODEN
(Temperature Dependence of the Breakdown in
Germanium and Silicon-Diodes). (text in German).
Order from T. I. B. \$1.55

Trans. of nonn. Fizika Tverdogo Tela; Sbornik Statei,
v. 2 [Moscow 1959], p. 104-108.

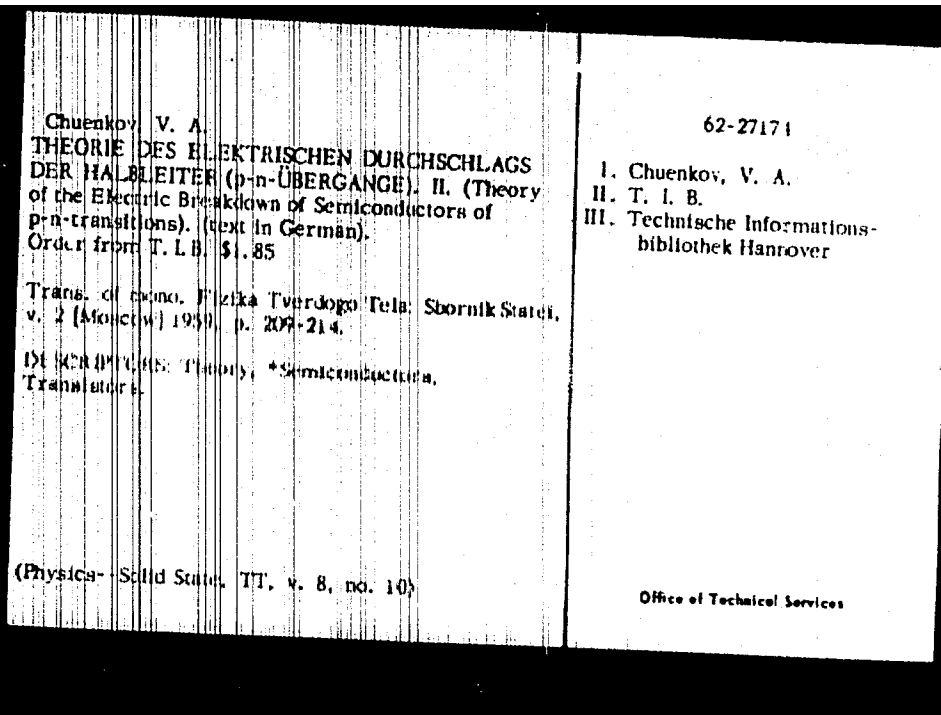
DESCRIPTORS: Sensitivity, *Germanium, *Silicon,
*Diodes.

(Physics--Solid State, TT, v. 8, no. 10)

62-27173

- I. Alferov, Zh. I.
- II. Gordeev, G. V.
- III. Stafeev, V. I.
- IV. T. I. B.
- V. Technische Informations-
bibliothek Hannover

Office of Technical Services



Theory of Ordering of an Alloy With a Hexagonal
Close-Packed Crystal Lattice, by Z. A. Matysina,
A. A. Smirnov, 6 pp. UNCL

RUSSIAN, *FIZTVERDOGU TEI4-SBORNIK STATEY*
Vol II, 1959, pp 286-290.

ACSI H-8459
ID 2162096

Sci - Phys
Mar 61

143,871

Unified Graphic Method of Deriving Indices on
X-Ray Photographs of Polymeric Substances,
by S. I. Rudel'man, 9 pp. UNCL

RUSSIAN, per, Fiz. Tverdogo Tela-Sbornik Statey,
1959, pp 306-316.

ACBI H-8460
ID 1162097

Sci - Phys
Mar 61

143,872

Advanced Studies on Silicon Photocells, 3 pp.

RUSSIAN, per, Fizika Tverdogo Tela, Vol I,
No 10, 1959, pp 1629-1631.

AID/SIR-3170

Sci - Engineering
Jan 60

105,395

Complex Ferroelectric Compounds, 3 pp.

RUSSIAN, per, Dok Ak Nauk Vol CXXVIII, No 1,
1959, pp 73, 74; Fizika Tverdogo Tela, Vol I,
No 10, 1959, pp 1562-1572.

AND/SIR-3171

Sci - Chem
Jan 60

105,373

Temperature Dependence of the Electrical
Resistance of a Single Crystal of Magnetite
Coiled in a Magnetic Field at a Temperature
Below Low Temperature Transformation, 5 pp.

^{per}
RUSSELL, ~~1958~~, Fizika Tverdogo Tela + Sovetsk
Stavay, 1959, pp 8-10.

ACSI 11-8602
ID 2162138

Sci - Phy

Jun 61

154,740